

Appendix C

Soil Sample Results from Previous Studies




Exhibit C-1
Midland Area Soil Surface TEQ Results
Midland Area Soils Remedial Investigation Work Plan
The Dow Chemical Company
Midland, MI

EXHIBIT C-2

2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations

Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
Dow, 1984	10-II (E)	84DOW-356	84DOW-356-SOI-0822	73	-	-	-
Dow, 1984	16-III (D)	84DOW-367	84DOW-367-SOI-0833	9.2	-	-	-
Dow, 1984	17-III (A)	84DOW-371	84DOW-371-SOI-0837	0.6	-	-	-
Dow, 1984	18-III (I)	84DOW-372	84DOW-372-SOI-0838	58	-	-	-
Dow, 1984	20-III (C)	84DOW-376	84DOW-376-SOI-0842	7.2	-	-	-
Dow, 1984	23-III (K)	84DOW-378	84DOW-378-SOI-0844	170	-	-	-
Dow, 1984	9-II (J)	84DOW-408	84DOW-408-SOI-0875	450	-	-	-
USEPA, 1985	A-1-L	83EPA2-275	83EPA2-275-SOI-0741	75	-	-	-
USEPA, 1985	A-3-L	83EPA2-277	83EPA2-277-SOI-0743	9	-	-	-
USEPA, 1985	B-1-L	83EPA2-279	83EPA2-279-SOI-0745	76	-	-	-
USEPA, 1985	B-3-L	83EPA2-281	83EPA2-281-SOI-0747	20	-	-	-
USEPA, 1985	B-4-L	83EPA2-283	83EPA2-283-SOI-0749	19	-	-	-
USEPA, 1985	C-1-L	83EPA2-285	83EPA2-285-SOI-0751	26	-	-	-
USEPA, 1985	C-3-L	83EPA2-287	83EPA2-287-SOI-0753	12	-	-	-
USEPA, 1985	C-4-L	83EPA2-289	83EPA2-289-SOI-0755	24	-	-	-
USEPA, 1985	D-1-L	83EPA2-291	83EPA2-291-SOI-0757	1	-	-	-
USEPA, 1985	D-2-6	83EPA2-292	83EPA2-292-SOI-0758	28	-	-	-
USEPA, 1985	D-3-L	83EPA2-294	83EPA2-294-SOI-0760	18	-	-	-
USEPA, 1985	E-1-L	83EPA2-296	83EPA2-296-SOI-0762	26	-	-	-
USEPA, 1985	F-1-L	83EPA2-300	83EPA2-300-SOI-0766	13	-	-	-

EXHIBIT C-2

2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations

Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
USEPA, 1985	P-10-L	83EPA2-302	83EPA2-302-SOI-0768	12	-	-	-
USEPA, 1985	P-11-L	83EPA2-303	83EPA2-303-SOI-0769	110	-	-	-
USEPA, 1985	P-2-L	83EPA2-305	83EPA2-305-SOI-0771	28	-	-	-
USEPA, 1985	P-5-L	83EPA2-306	83EPA2-306-SOI-0772	3	-	-	-
USEPA, 1985	P-7-L	83EPA2-308	83EPA2-308-SOI-0774	78	-	-	-
USEPA, 1985	P-8-L	83EPA2-309	83EPA2-309-SOI-0775	170	-	-	-
USEPA, 1985	P-9-L	83EPA2-310	83EPA2-310-SOI-0776	76	-	-	-
USEPA, 1985	PER-10-L	83EPA2-311	83EPA2-311-SOI-0777	40	-	-	-
USEPA, 1985	PER-2-L	83EPA2-313	83EPA2-313-SOI-0779	310	-	-	-
USEPA, 1985	PER-5-L	83EPA2-314	83EPA2-314-SOI-0780	210	-	-	-
USEPA, 1985	PER-8-L	83EPA2-316	83EPA2-316-SOI-0782	10	-	-	-
USEPA, 1985	PER-9-G	83EPA2-317	83EPA2-317-SOI-0783	2000	-	-	-
USEPA, 1985	TO-4-G	83EPA2-349	83EPA2-349-SOI-0815	11	-	-	-
USEPA, 1985	TO-6-G	83EPA2-350	83EPA2-350-SOI-0816	250	-	-	-
USEPA, 1985	TO-9-G	83EPA2-351	83EPA2-351-SOI-0817	14	-	-	-
MDEQ, 1997	NE-15	96DEQ-409	96DEQ-409-SOI-0876	11	30	30	-
MDEQ, 1997	NE-18	96DEQ-411	96DEQ-411-SOI-0878	50	120	120	-
MDEQ, 1997	NE-19	96DEQ-412	96DEQ-412-SOI-0879	21	76	74	-
MDEQ, 1997	NE-20	96DEQ-413	96DEQ-413-SOI-0880	86	630	580	-
MDEQ, 1997	NE-37	96DEQ-414	96DEQ-414-SOI-0881	20	210	200	-

EXHIBIT C-2

2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations
Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
MDEQ, 1997	NE-47	96DEQ-416	96DEQ-416-SOI-0883	290	590	590	-
MDEQ, 1997	NE-48	96DEQ-417	96DEQ-417-SOI-0884	22	77	77	-
MDEQ, 1997	NE-D-106	96DEQ-420	96DEQ-420-SOI-0887	13	72	72	-
MDEQ, 1997	NE-P-16	96DEQ-430	96DEQ-430-SOI-0897	100	210	210	-
MDEQ, 1997	NE-P-17	96DEQ-431	96DEQ-431-SOI-0898	46	170	180	-
MDEQ, 1997	NE-P-23	96DEQ-432	96DEQ-432-SOI-0899	64	140	140	-
MDEQ, 1997	NE-P-24	96DEQ-433	96DEQ-433-SOI-0900	15	33	33	-
MDEQ, 1997	NE-P-25	96DEQ-434	96DEQ-434-SOI-0901	9.6	94	99	-
MDEQ, 1997	NE-P-26	96DEQ-435	96DEQ-435-SOI-0902	10	24	24	-
MDEQ, 1997	NE-P-27	96DEQ-436	96DEQ-436-SOI-0903	37	85	85	-
MDEQ, 1997	NE-P-28	96DEQ-437	96DEQ-437-SOI-0904	15	44	44	-
MDEQ, 1997	NE-P-29	96DEQ-438	96DEQ-438-SOI-0905	11	32	32	-
MDEQ, 1997	NE-P-30	96DEQ-439	96DEQ-439-SOI-0906	3.8	14	14	-
MDEQ, 1997	NE-P-30A	96DEQ-440	96DEQ-440-SOI-0907	3.5	14	14	-
MDEQ, 1997	NE-S-10	96DEQ-441	96DEQ-441-SOI-0908	30	110	100	-
MDEQ, 1997	NE-S-11	96DEQ-442	96DEQ-442-SOI-0909	41	110	100	-
MDEQ, 1997	NE-S-12	96DEQ-443	96DEQ-443-SOI-0910	44	100	100	-
MDEQ, 1997	NE-S-13	96DEQ-444	96DEQ-444-SOI-0911	47	94	94	-
MDEQ, 1997	NE-S-14	96DEQ-445	96DEQ-445-SOI-0912	22	69	69	-
MDEQ, 1997	SW-22	96DEQ-448	96DEQ-448-SOI-0915	7.4	17	16	-

EXHIBIT C-2

2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations

Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
MDEQ, 1997	SW-36	96DEQ-450	96DEQ-450-SOI-0917	25	77	76	-
MDEQ, 1997	SW-38	96DEQ-451	96DEQ-451-SOI-0918	5.8	24	25	-
MDEQ, 1997	SW-43	96DEQ-454	96DEQ-454-SOI-0921	3.5	14	14	-
MDEQ, 1997	SW-D-104	96DEQ-461	96DEQ-461-SOI-0928	120	460	460	-
MDEQ, 1997	SW-P-45	96DEQ-463	96DEQ-463-SOI-0930	12	47	45	-
MDEQ, 1997	SW-S-39	96DEQ-465	96DEQ-465-SOI-0932	43	100	100	-
Dow, 1998	AA3-S-01	98DOW-468	98DOW-468-SOI-0935	94	310	310	270
Dow, 1998	CC-S-01	98DOW-469	98DOW-469-SOI-0936	5.8	15	14	-
Dow, 1998	CC-S-02	98DOW-470	98DOW-470-SOI-0937	24	56	56	-
Dow, 1998	CC-S-03	98DOW-471	98DOW-471-SOI-0938	48	110	100	-
Dow, 1998	CC-S-04	98DOW-472	98DOW-472-SOI-0939	150	290	290	-
Dow, 1998	CC-S-05	98DOW-473	98DOW-473-SOI-0940	73	170	170	-
Dow, 1998	CC-S-06	98DOW-474	98DOW-474-SOI-0941	66	130	130	-
Dow, 1998	CC-S-07	98DOW-475	98DOW-475-SOI-0942	26	85	85	77
Dow, 1998	CC-S-08	98DOW-476	98DOW-476-SOI-0943	32	89	89	81
Dow, 1998	CC-S-09	98DOW-477	98DOW-477-SOI-0944	27	79	78	72
Dow, 1998	CC-S-10	98DOW-478	98DOW-478-SOI-0945	34	95	95	86
Dow, 1998	CC-S-11	98DOW-479	98DOW-479-SOI-0946	38	110	110	99
Dow, 1998	CC-S-12	98DOW-480	98DOW-480-SOI-0947	38	110	110	99
Dow, 1998	CC-S-13	98DOW-481	98DOW-481-SOI-0948	41	110	100	96

EXHIBIT C-2

2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations

Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
Dow, 1998	CC-S-14	98DOW-482	98DOW-482-SOI-0949	34	95	95	85
Dow, 1998	CC-S-15	98DOW-483	98DOW-483-SOI-0950	44	120	120	110
Dow, 1998	CC-S-16	98DOW-484	98DOW-484-SOI-0951	39	100	100	93
Dow, 1998	CC-S-17	98DOW-485	98DOW-485-SOI-0952	32	94	94	83
Dow, 1998	CC-S-19	98DOW-487	98DOW-487-SOI-0954	51	120	120	120
Dow, 1998	CC-S-20	98DOW-488	98DOW-488-SOI-0955	66	130	130	140
Dow, 1998	CC-S-21	98DOW-489	98DOW-489-SOI-0956	38	150	150	86
Dow, 1998	CC-S-22	98DOW-490	98DOW-490-SOI-0957	28	97	96	66
Dow, 1998	CC-S-23	98DOW-491	98DOW-491-SOI-0958	33	75	75	85
Dow, 1998	CC-S-24	98DOW-492	98DOW-492-SOI-0959	30	98	98	74
Dow, 1998	CC-S-25	98DOW-493	98DOW-493-SOI-0960	32	84	84	79
Dow, 1998	CC-S-26	98DOW-494	98DOW-494-SOI-0961	39	90	90	83
Dow, 1998	CC-S-27	98DOW-495	98DOW-495-SOI-0962	360	740	720	-
Dow, 1998	CC-S-28	98DOW-496	98DOW-496-SOI-0963	230	490	490	-
Dow, 1998	CC-S-29	98DOW-497	98DOW-497-SOI-0964	29	78	78	76
Dow, 1998	CC-S-30	98DOW-498	98DOW-498-SOI-0965	50	110	100	100
Dow, 1998	CC-S-31	98DOW-499	98DOW-499-SOI-0966	46	99	99	97
Dow, 1998	CC-S-32	98DOW-500	98DOW-500-SOI-0967	94	210	210	210
Dow, 1998	CC-S-33	98DOW-501	98DOW-501-SOI-0968	51	120	120	120
Dow, 1998	CC-S-34	98DOW-502	98DOW-502-SOI-0969	90	180	180	180

EXHIBIT C-2

2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations

Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
Dow, 1998	CC-S-35	98DOW-503	98DOW-503-SOI-0970	140	220	220	220
Dow, 1998	CC-S-36	98DOW-504	98DOW-504-SOI-0971	41	130	130	130
Dow, 1998	CC-S-37	98DOW-505	98DOW-505-SOI-0972	49	130	130	120
Dow, 1998	CC-S-38	98DOW-506	98DOW-506-SOI-0973	58	150	150	150
Dow, 1998	CC-S-39	98DOW-507	98DOW-507-SOI-0974	100	210	210	210
Dow, 1998	CC-S-40	98DOW-508	98DOW-508-SOI-0975	47	140	140	130
Dow, 1998	CC-S-41	98DOW-509	98DOW-509-SOI-0976	72	160	160	160
Dow, 1998	CC-S-42	98DOW-510	98DOW-510-SOI-0977	60	140	140	140
Dow, 1998	CC-S-43	98DOW-511	98DOW-511-SOI-0978	56	160	160	160
Dow, 1998	CC-S-44	98DOW-512	98DOW-512-SOI-0979	62	180	170	170
Dow, 1998	CC-S-45	98DOW-513	98DOW-513-SOI-0980	39	140	140	140
Dow, 1998	NEPP-S-04	98DOW-518	98DOW-518-SOI-0986	20	120	120	-
Dow, 1998	NEPP-S-05	98DOW-519	98DOW-519-SOI-0987	14	46	43	-
Dow, 1998	NEPP-S-06	98DOW-520	98DOW-520-SOI-0988	16	70	67	-
Dow, 1998	NEPP-S-07	98DOW-521	98DOW-521-SOI-0989	20	89	86	-
Dow, 1998	NEPP-S-08	98DOW-522	98DOW-522-SOI-0990	27	90	88	-
Dow, 1998	NEPP-S-09	98DOW-523	98DOW-523-SOI-0991	18	73	70	-
Dow, 1998	NEPP-S-10	98DOW-524	98DOW-524-SOI-0992	66	920	850	-
Dow, 1998	SSRR-S-04	98DOW-547	98DOW-547-SOI-1018	32	160	160	170
Dow, 1998	SSRR-S-05	98DOW-548	98DOW-548-SOI-1019	14	59	58	58

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2,3,7,8-TCDD and TEQ Results for Surface Soil Samples Collected from the Midland Study Area in Previous Investigations

Midland Area Soils Remedial Investigation Work Plan

Study	Original Sample ID	Dow Sample Location	Dow Sample ID	2,3,7,8-TCDD (ppt)	TEQ (ppt) 1998 TEFs	TEQ (ppt) 2005 TEFs	Reported TEQ (ppt)
Dow, 1998	SSRR-S-06	98DOW-549	98DOW-549-SOI-1021	8.5	36	35	36
Dow, 1998	SSRR-S-07	98DOW-550	98DOW-550-SOI-1022	8.1	31	31	31
Dow, 1998	SSRR-S-08	98DOW-551	98DOW-551-SOI-1023	19	62	62	62
Dow, 1998	SSRR-S-09	98DOW-552	98DOW-552-SOI-1024	19	58	57	54
Dow, 1998	SSRR-S-10 ⁽¹⁾	98DOW-553	98DOW-553-SOI-1025	26	1900	2000	2200
Dow, 1998	SSRR-S-11	98DOW-554	98DOW-554-SOI-1026	11	37	37	36
Dow, 1998	SSRR-S-12	98DOW-555	98DOW-555-SOI-1027	13	39	39	38
Dow, 1998	SSRR-S-13	98DOW-556	98DOW-556-SOI-1028	11	240	200	230
Dow, 1998	SSRR-S-14	98DOW-557	98DOW-557-SOI-1029	15	55	54	49
Dow, 1998	SSRR-S-15	98DOW-558	98DOW-558-SOI-1030	5	30	30	31
Dow, 1998	SSRR-S-16	98DOW-559	98DOW-559-SOI-1031	1.8	9.0	8.8	8.2
MDEQ, 2003	EMP-1	02DEQ1-083	02DEQ1-083-SOI-0128	3.7	10	10	-
MDEQ, 2003	EMP-1	02DEQ1-083	02DEQ1-083-SOI-0129	3	7.5	7.2	-
MDEQ, 2003	EMP-1	02DEQ1-083	02DEQ1-083-SOI-0130	1.6	5.2	5	-
MDEQ, 2003	EMP-1	02DEQ1-083	02DEQ1-083-SOI-0131	8.9	22	21	-
MDEQ, 2003	EMP-2	02DEQ1-084	02DEQ1-084-SOI-0132	6.3	24	23	-
MDEQ, 2003	EMP-2	02DEQ1-084	02DEQ1-084-SOI-0133	5.7	29	27	-
MDEQ, 2003	EMP-2	02DEQ1-084	02DEQ1-084-SOI-0134	15	54	50	-
MDEQ, 2003	EMP-2	02DEQ1-084	02DEQ1-084-SOI-0135	17	100	92	-
MDEQ, 2003	EMP-3	02DEQ1-085	02DEQ1-085-SOI-0136	3.9	15	14	-